

FIG. 1

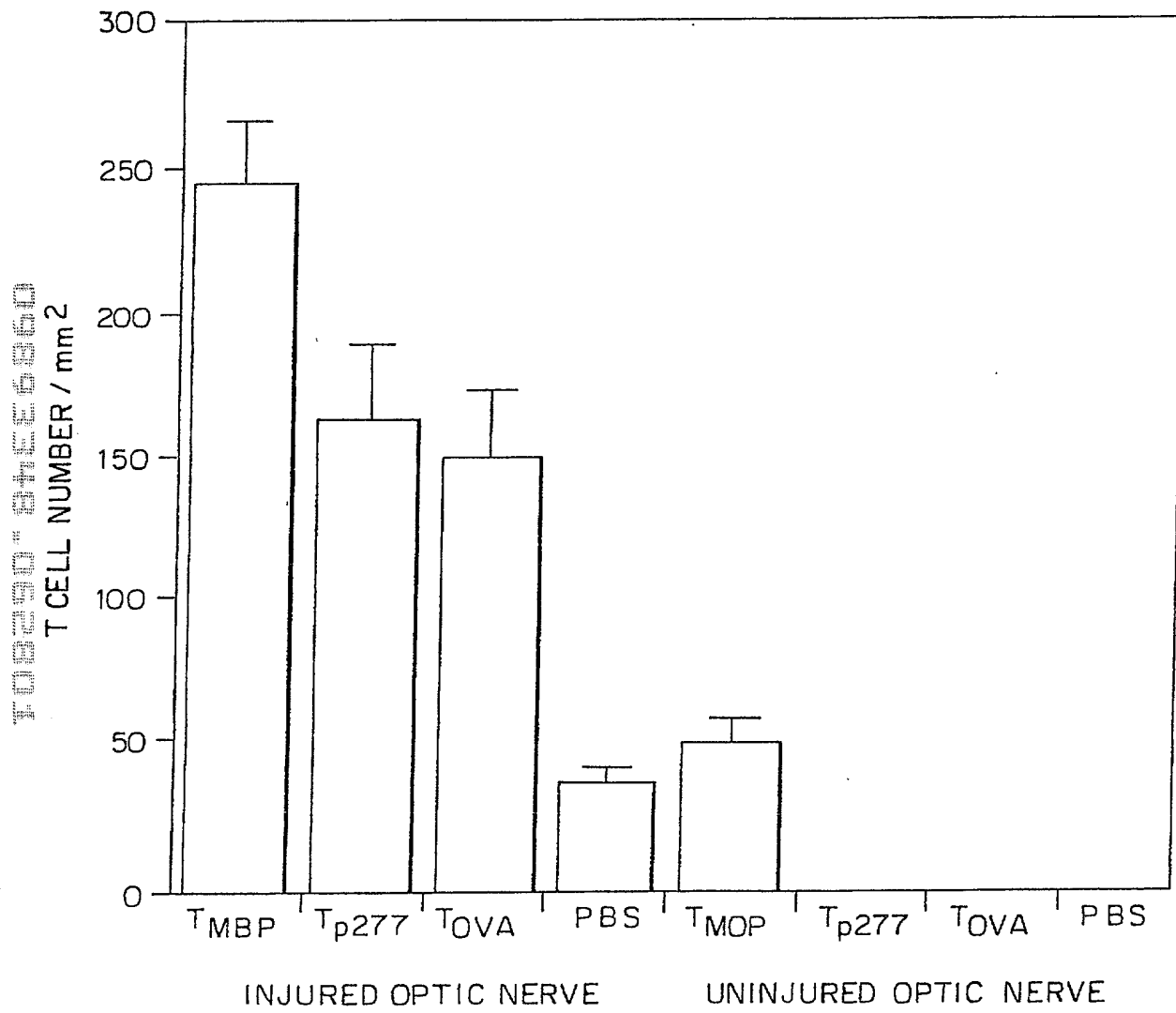


FIG. 2

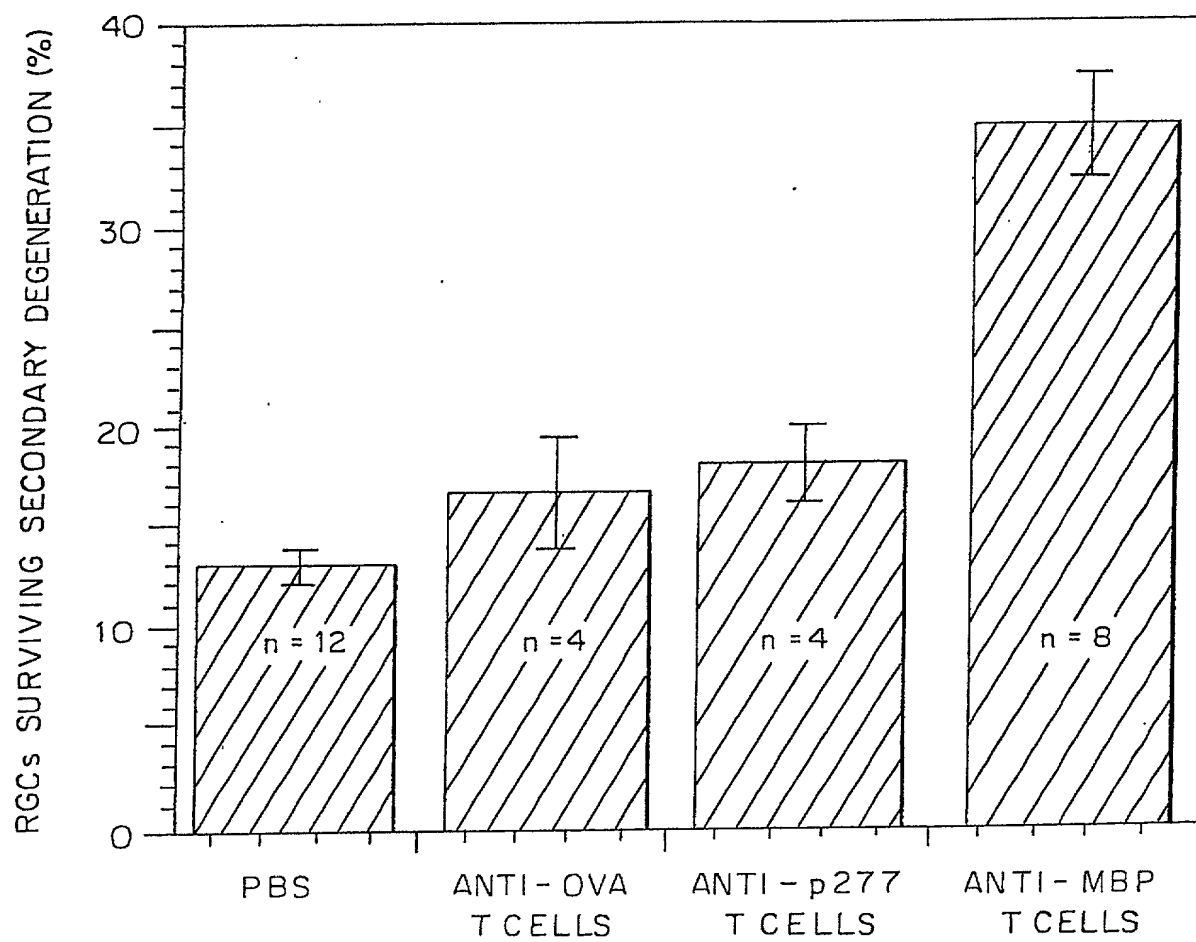


FIG.3A

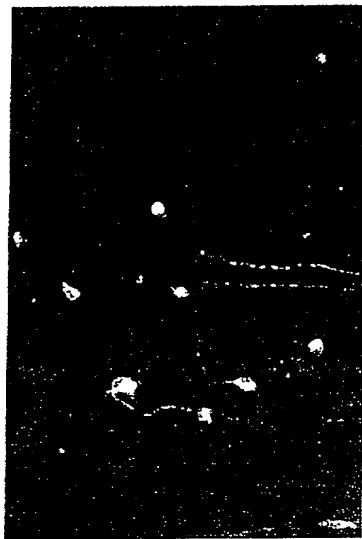
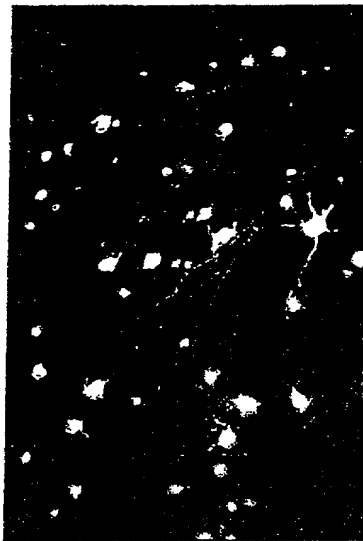


FIG.3B



FIG.3C



160μm

FIG. 4A

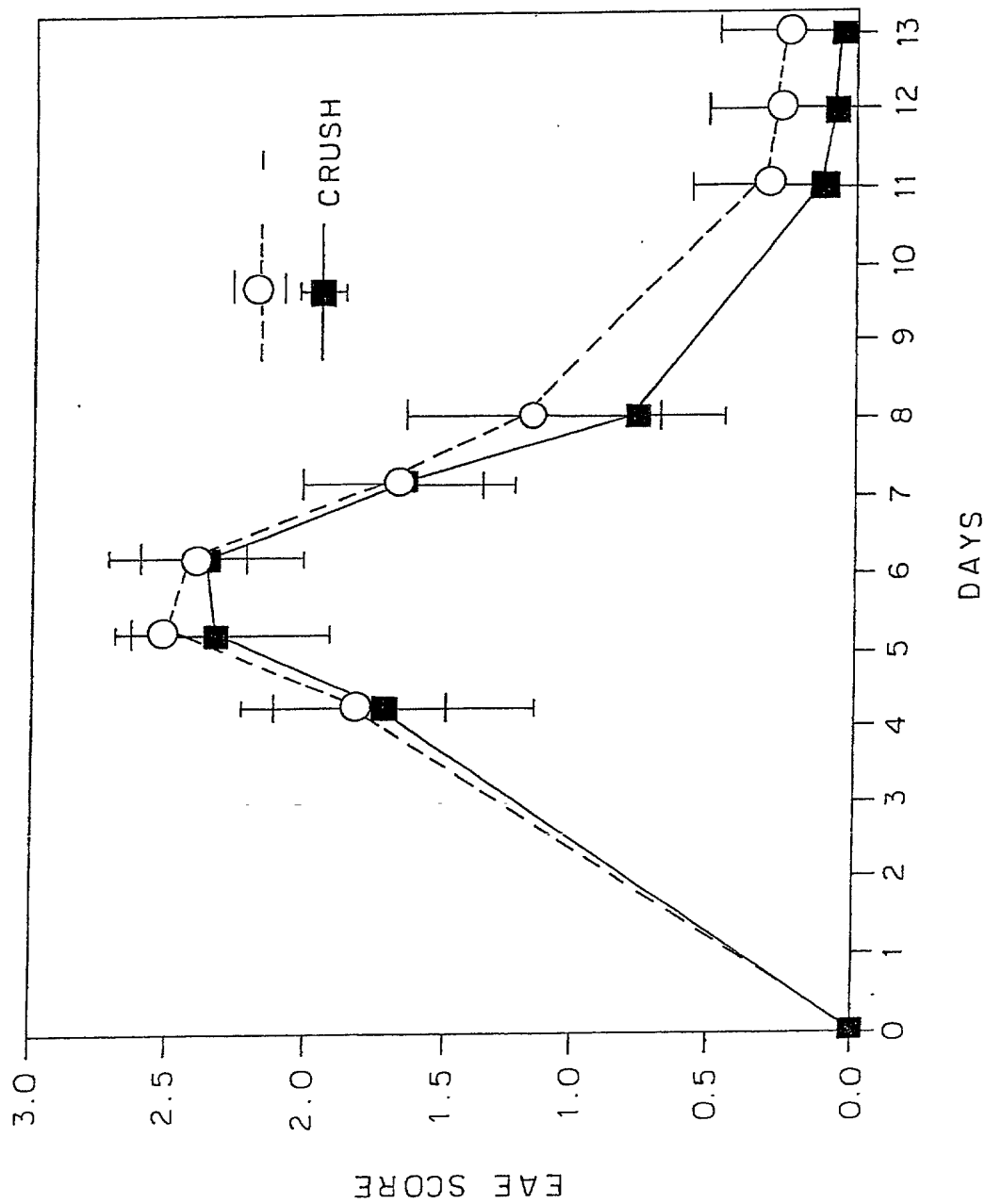


FIG. 4B

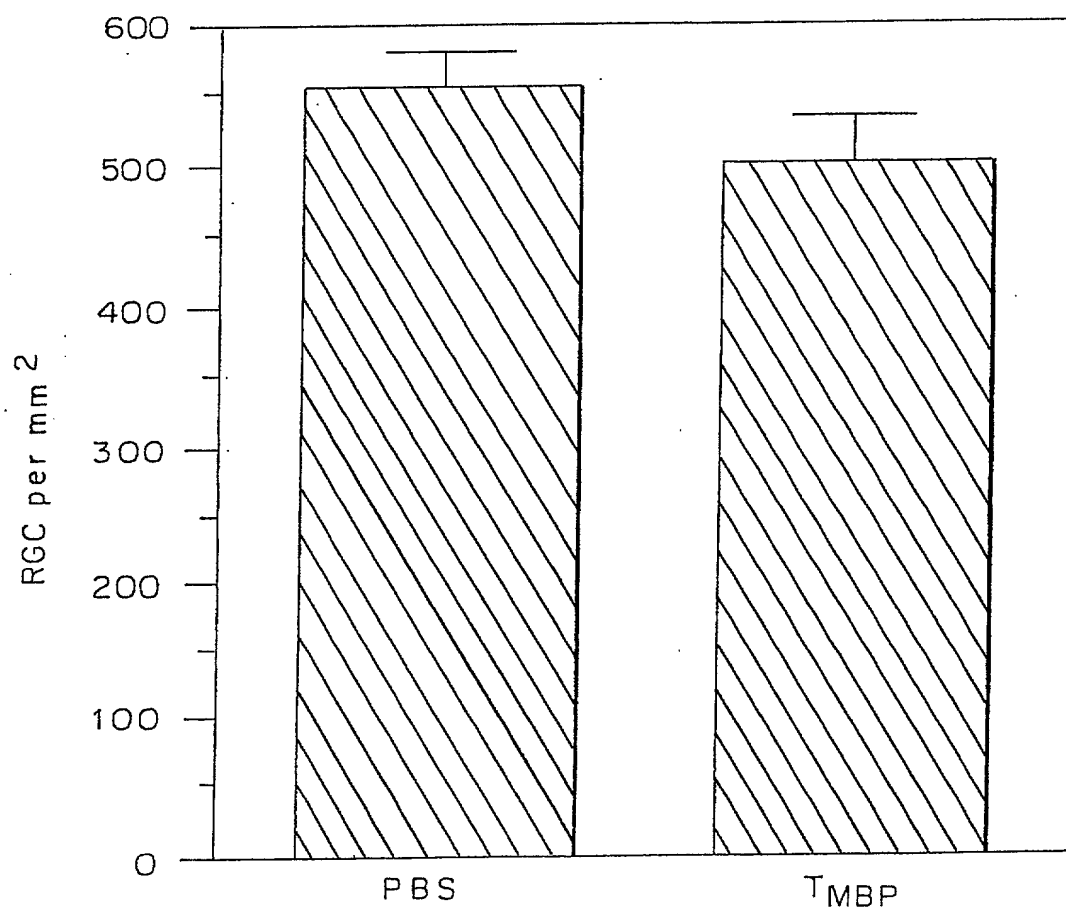


FIG.5

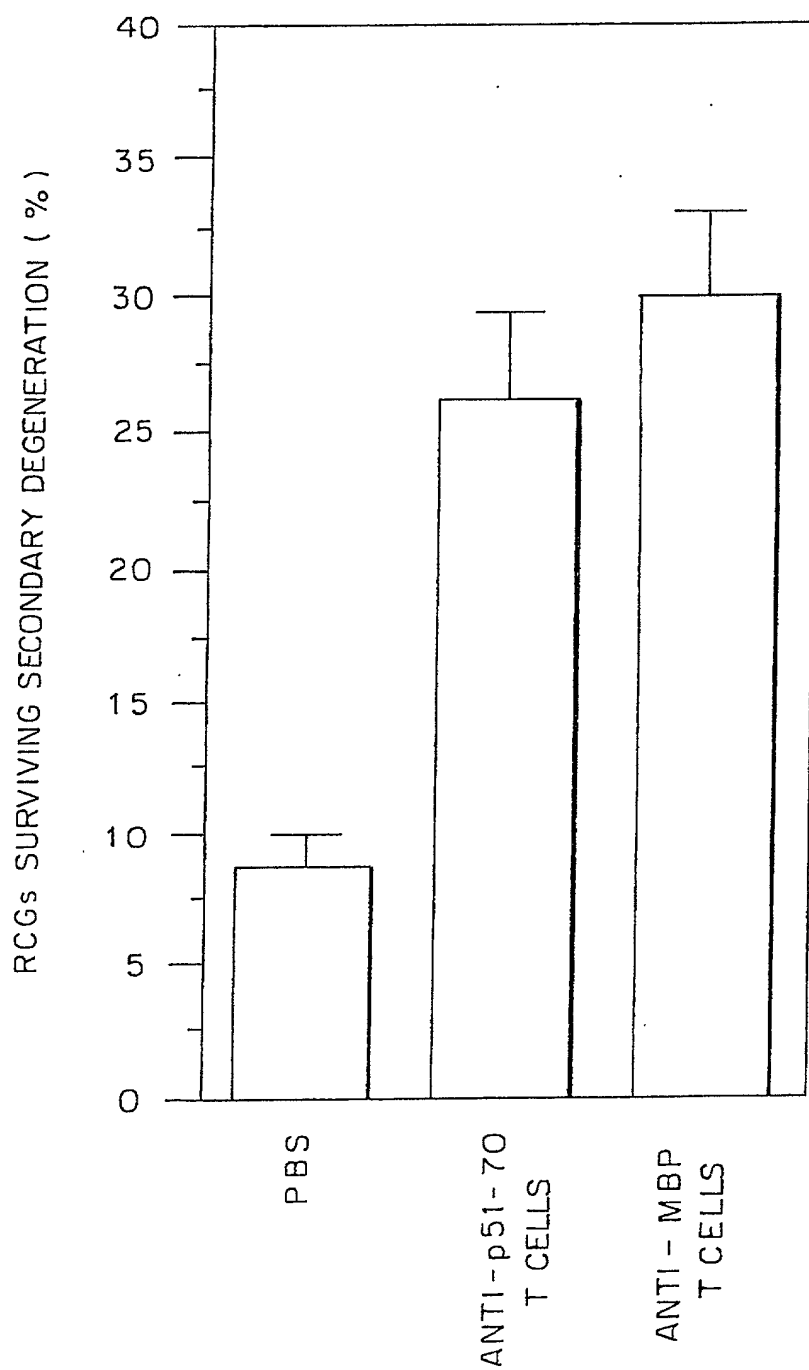


FIG. 6A

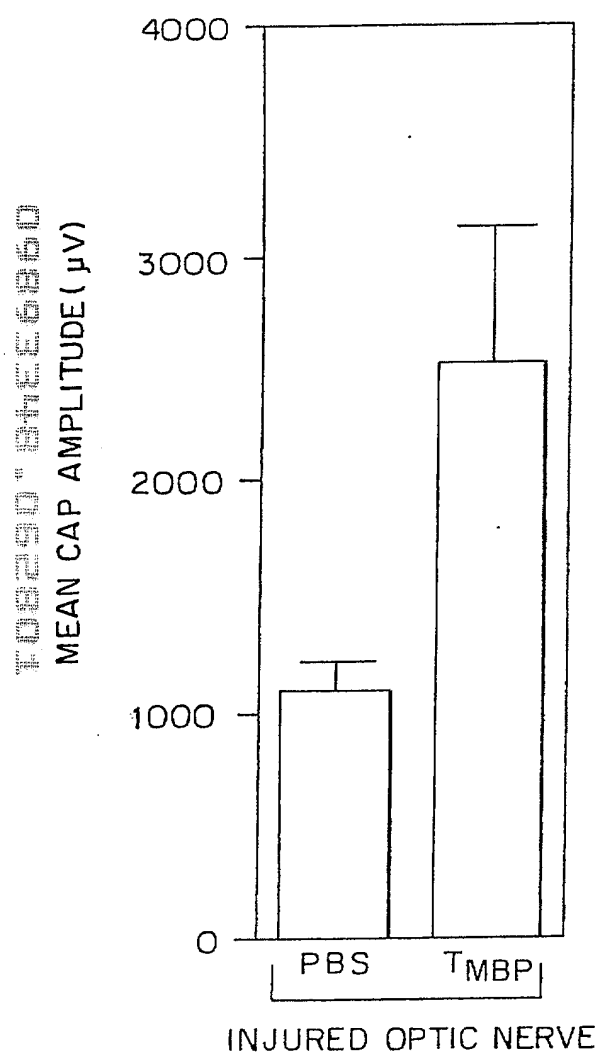
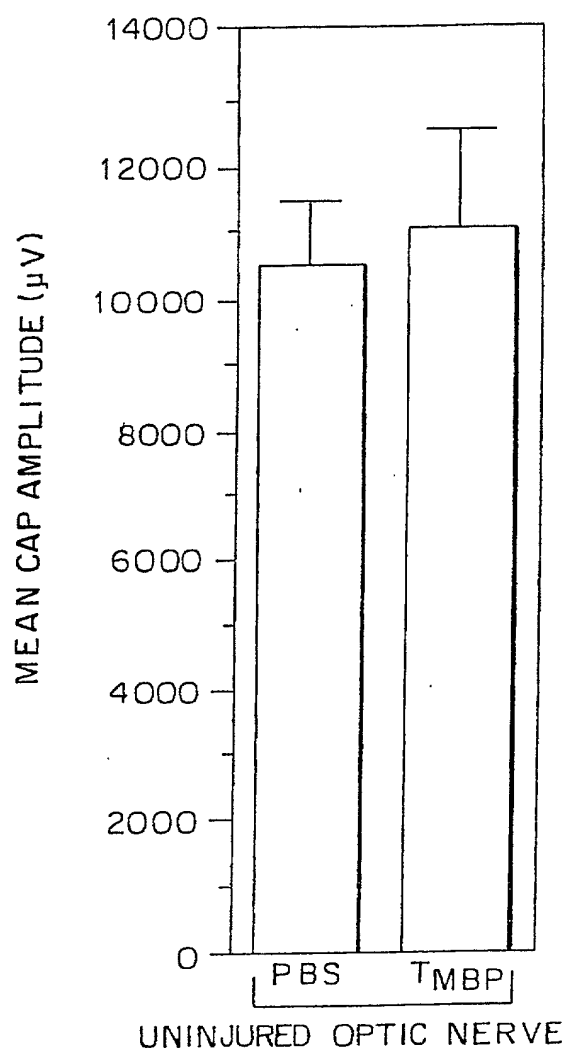


FIG. 6B



TOP290" 84E6860

FIG. 7A

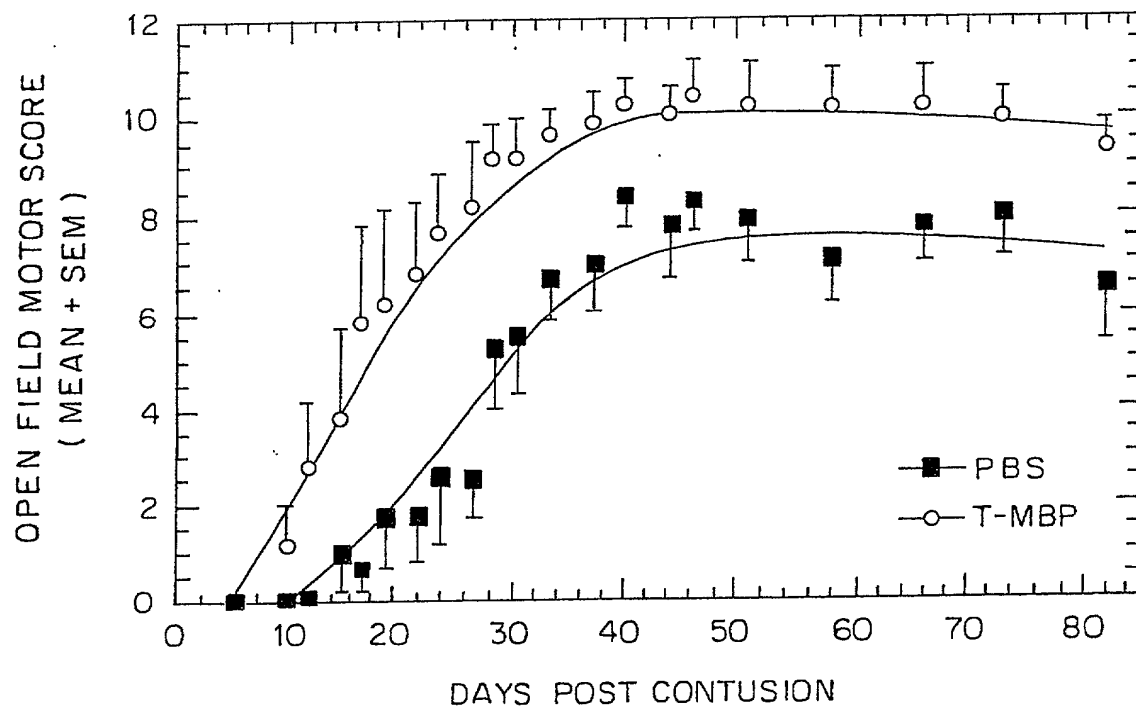
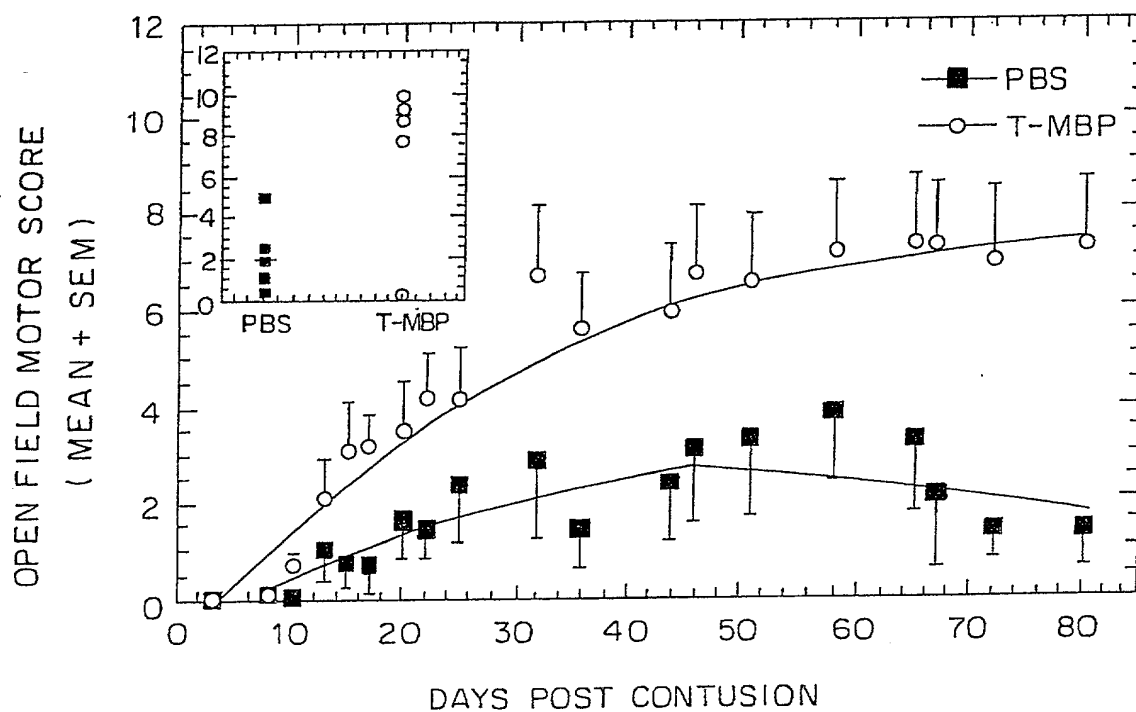


FIG. 7B



T03290" SHEE6350

FIG. 8A

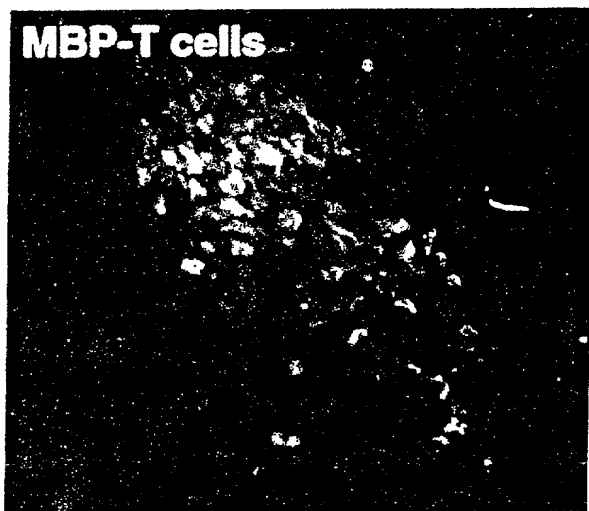


FIG. 8B

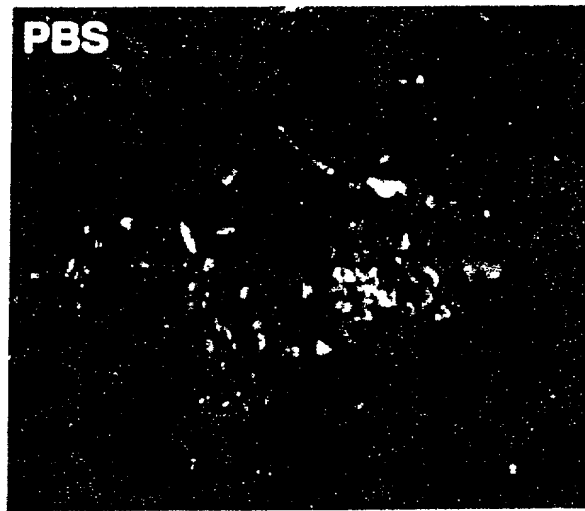


FIG. 8C

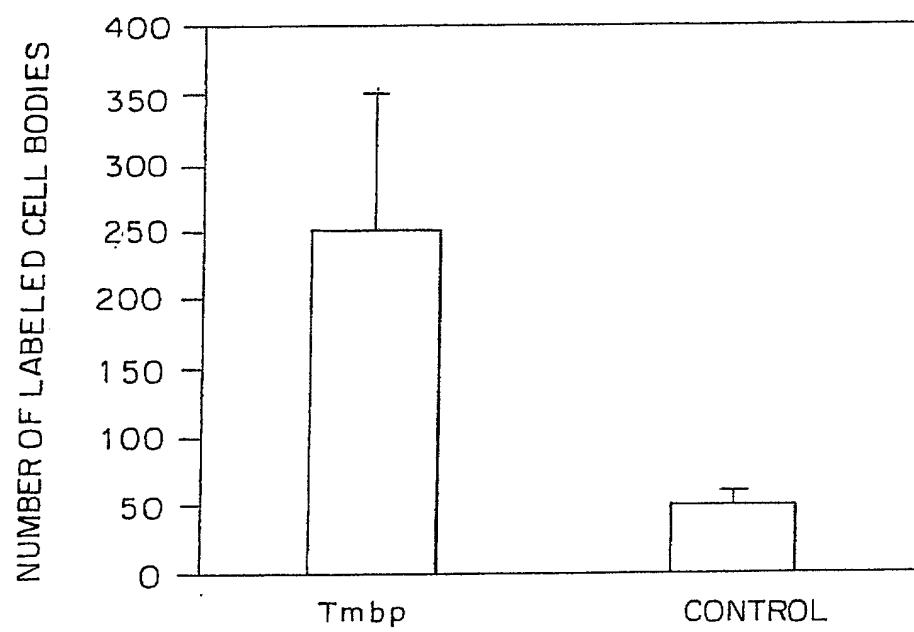
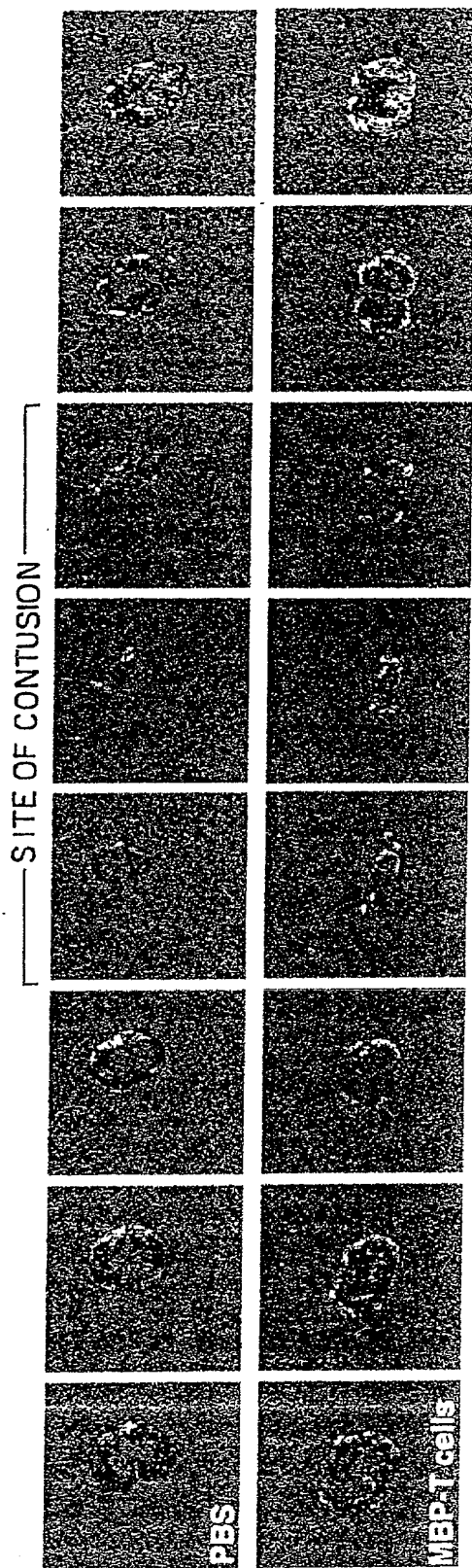


FIG. 9



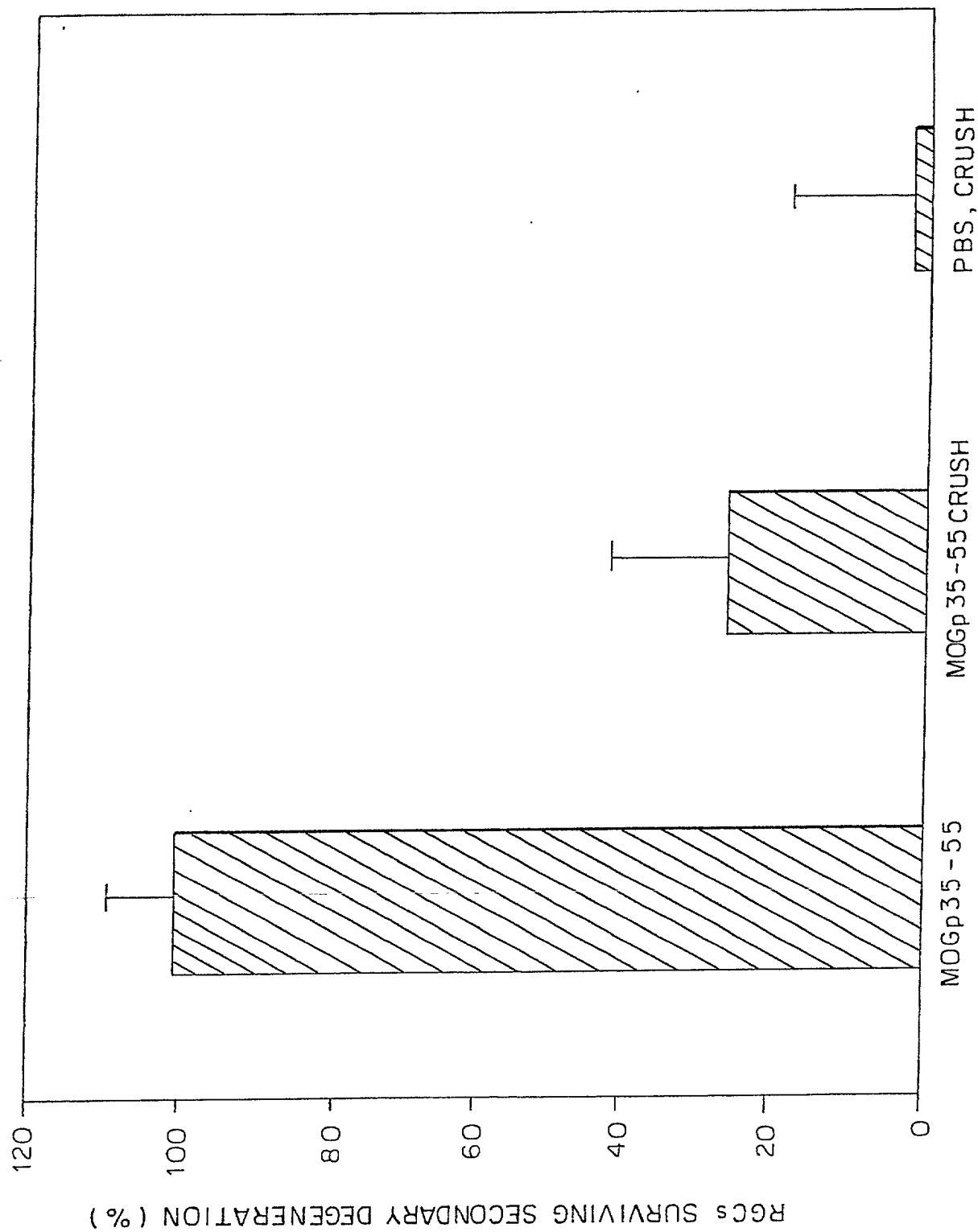


FIG. 11

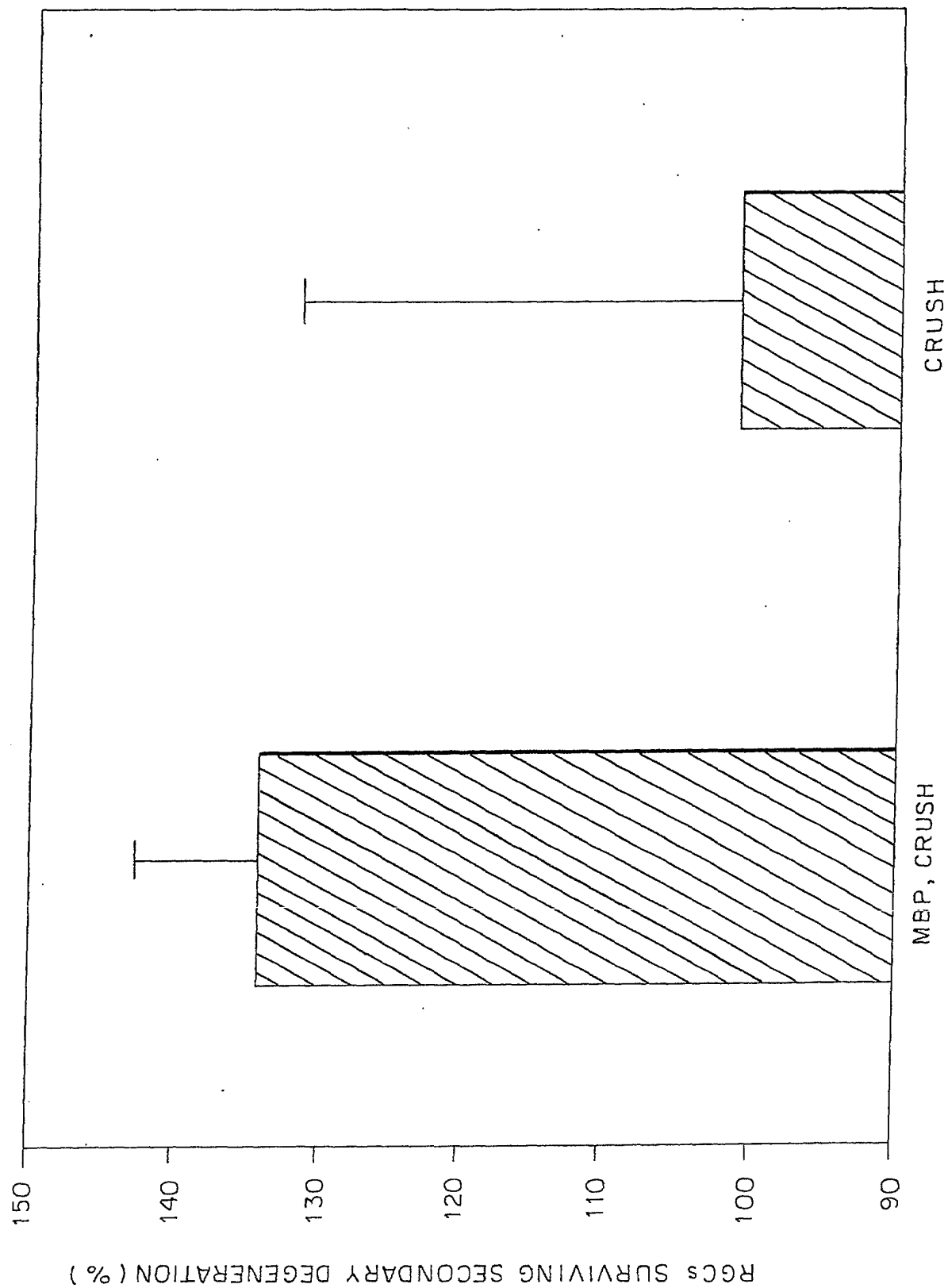


FIG. 12A

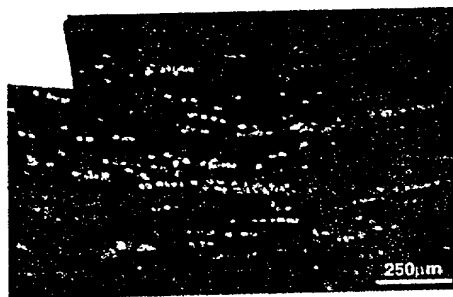


FIG. 12B

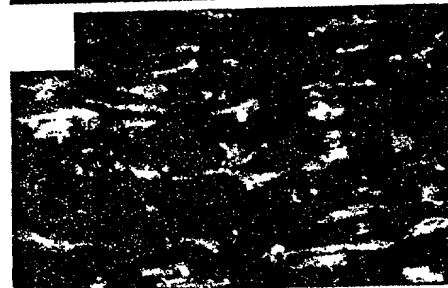


FIG. 12C

FIG. 12D

FIG. 12E

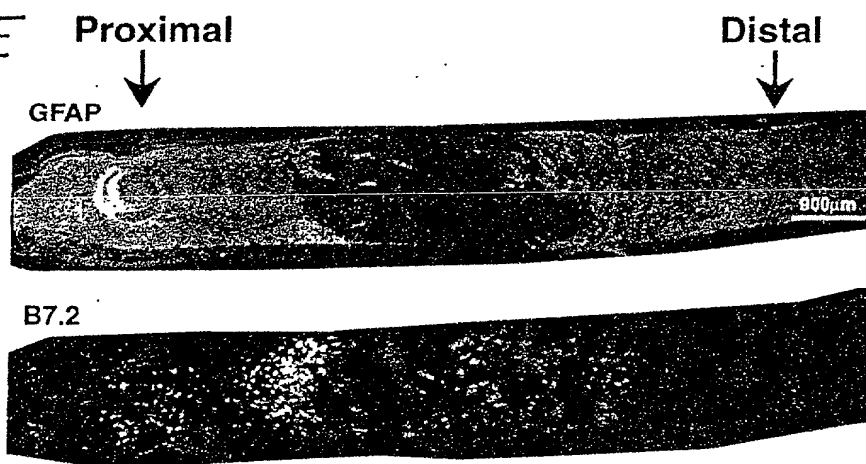


FIG. 12F



FIG. 13A

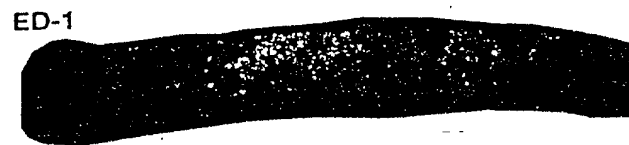


FIG. 13B



FIG. 13C



002290" 84E6660

FIG. 14

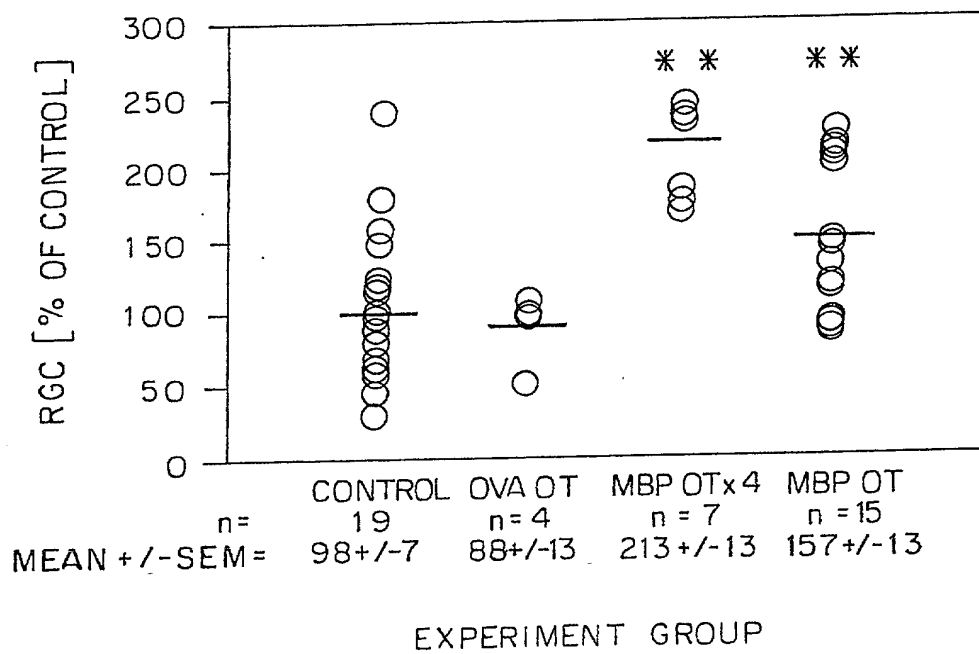


FIG. 15

1 ccaagaagat cccacagcag cttccgaagg cctggatgtg atggcatcac agaagagacc
61 ctcacagcga cacggatcca agtacttggc cacagcaagt accatggacc atgcccggca
121 tggcttctc ccaaggcaca gagacacggg catccttgac tccatcgggc gcttcttttag
181 cggtgacagg ggtgcgcca agcggggctc tggcaaggac tcacacacaa gaactacca
241 ctacggctcc ctgccccaga agtcgcagag gacccaagat gaaaaccag tagtcactt
301 cttcaagaac attgtgacac ctctacacc cctccatcc caaggaaagg ggagaggcct
361 gtccctcagc agatttagct ggggaggaag agacagccgc tctggatctc ccatggcaag
421 acgctgagag cctccctgct cagccttccc gaatcctgcc ctcggtctct taatataact
481 gccttaaacg ttttaattcta cttgcaccaa atagctagtt agagcagacc ctctcttaat
541 cccgtggggc tgtgaacgcg gcggggcagc ccacggcacc ctgactggct aaaactgttt
601 gtcctctttt at

FIG. 16

1 gaaaacagtg cagccacctc cgagagcctg gatgtgatgg cgtcacagaa gagaccctcc
61 cagaggcacg gatccaagta cctggccaca gcaagtacca tggaccatgc caggcatggc
121 ttcttcccaa ggcacagaga cacgggcac cttgactcca tcgggcgctt ctttggcggt
181 gacaggggtg cgccaaagcg gggctctggc aaggactcac accaccggc aagaactgct
241 cactatggct cctgccccca gaagtccacac ggccggaccc aagatgaaaa ccccgtagtc
301 cacttcttca agaacattgt gacgcctcgc acaccacccc cgtcgcaggg aaaggggaga
361 ggactgtccc tgagcagatt tagctggggg gccgaaggcc agagaccagg atttggctac
421 ggaggcagag cgtccgacta taaatcggct cacaagggat tcaaggagat cgatgccag
481 ggcacgcttt ccaaaatttt taagctggga ggaagagata gtgcctctgg atcaccatg
541 gctagacgct gaaaaccac ctggttccgg aatcctgtcc tcagcttctt aatataactg
601 ccttaaaaact ttaatccac ttgcccctgt tacctaatta gagcagatga cccctccct
661 aatgcctgcg gagttgtgca cgtagtaggg tcaggccacg gcagcctacc ggcaatttcc
721 ggccaacagt taaatgagaa catgaaaaca gaaaacgggtt aaaactgtcc ctttctgtgt
781 gaagatcacg ttcttcccc cgcaatgtgc cccagacgc acgtgggtct tcagggggcc
841 aggtgcacag acgtccctcc acgttcaccc ctccaccctt ggactttctt ttgcgcgtgg
901 ctcggcaccc ttgcgtttt gctggtcact gccatggagg cacacagctg cagagacaga
961 gaggacgtgg gcggcagaga ggactgttga catccaagct tctttgttt tttttctctg
1021 tcttctctc acctcctaaa gtagacttca ttttctctaa caggattaga cagtcaagga
1081 gtggcttact acatgtggga gctttttgtt atgtgacatg cgggctgggc agctgttaga
1141 gtccaacgtg gggcagcaca gagagggggc cacctcccca ggccgtggct gccacacac
1201 cccaattagc tgaattcgcg tgtggcagag ggaggaaaag gaggcaaacg tgggctgggc
1261 aatggcctca cataggaaac agggctcttc tggagatttg gtgatggaga tgtcaagcag
1321 gtggcctctg gacgtcaccc ttgccctgca tgggtggccc agagcagcct ctatgaacaa
1381 cctcgtttcc aaaccacagc ccacagccgg agagtccagg aagacttgcg cactcagagc
1441 agaagggtag gagtcctcta gacagcctcg cagccgcgcc agtcgcccac agacactggc
1501 tgtgaccggg cgtgctggca gcggcagtc acagtggcca gcactaacc tccctgagaa
1561 gataaccggc tcattcactt cctcccagaa gacgcgtggg agcgagtagg cacaggcgtg
1621 cacctgtctc cgaattactc accgagacac acgggctgag cagacggccc ctgtgatgga
1681 gacaaagagc tcttctgacc atatecttct taacaccgc tggcatctcc tttcgcgct
1741 cctccctaa cctactgacc caccttttga ttttagcgca cctgtgattg ataggcctc
1801 caaagagtcc cagctggca tcaccctccc cgaggacgga gatgaggagt agtcagcgtg
1861 atgccaaaac gcgtcttctt aatccaattc taattctgaa tgtttcgtgt gggcttaata
1921 ccatgtctat taatatatag cctcgatgat gagagagtta caaagaacaa aactccagac
1981 acaaacctcc aaatttttca gcagaagcac tctgcgtcgc tgagctgagg tcggctctcc
2041 gatccatacg tggccgcacc cacacagcac gtgctgtgac gatggctgaa cggaaagtgt
2101 acactgttcc tgaatattga aataaaacaa taaactttt

09693349 055501

FIG. 17B

[illegible]

FIG. 17B

1	ctgcttttcag	agcctgtgac	tctctgtgtg	cctctcctgt	ttctcagcaa	catggcatag
61	ggcctgggat	accaggtctg	gggatctctg	ggactccttag	cactttaaga	cacatgtgtt
121	cccaggccct	ggtgtgttcc	tctagtgcga	gaaagatgtt	tcattgctttg	ctgactttgt
181	ataaagtctg	tttgtagctg	ttttgacaga	atctcagcgt	ataactgagg	gtggggacat
241	tagccaagct	gcattatagg	aggacaaaac	tgccatacaa	agtgtccaaa	atcattaagc
301	ctgcattttt	attattggga	gtaatatcaa	acctcctatt	ttccaatttt	cattttctgt
361	cctgtgctag	ctccatcctg	tttggactgc	tcctcccata	tgtaaaactaa	gaagaatcaa
421	gcattctttg	caacaaatac	acacgatgct	caaaaatgtc	caggagcadc	caatttccaa
481	agtttcctcc	acctggaatg	ctcttcctgc	taaaatcctg	tctgacaata	ccagcatctc
541	tggcctgcac	tcctcccttc	ctggaaactcc	aagtgcattt	acctctgttt	accacttact
601	tggctgcctg	aattgttagt	tgaaaaatatt	aggtctactt	agctaattct	tcctcaggaa
661	attaaagact	cccatatggc	agagtctgtg	tcttttctct	cttcatatcc	cgtataacac
721	ccagcataat	gctgggcata	tagtgagtat	tccataaata	gttgatgaat	gactaaaata
781	agcaagcaaa	caaacagact	agaacaataa	gaaagaaggg	actggatttc	ataatctctc
841	tggcttgcta	tttgaattgc	tgaattatta	ttattttatta	aatatttttt	aaattctggc
901	aataaaagg	aaggatttat	tttctttctt	tctttttttt	tttcttgaga	cagagtctcg
961	ctcttactgc	ccaggctgga	gtacaatggc	gcaatcttgg	ctcacggcaa	cctccgcctc
1021	ctcctgggtt	taacagattc	tcctgtctca	gctcctgag	tagctgggat	tacaggcata
1081	cgcccatgcc	cggctaattt	ttgtattttt	agtagagacg	gggttttgcc	atgttggcca
1141	ggctggctct	gaactcctga	cctcatgtga	tccacctgcc	tcagcctccc	aaagtgtctg
1201	gattacaggc	atgcgccacc	gtgcccgggc	aaagatttat	tttcaagaat	gaaacaaagt
1261	aaggattctg	ggtcaatctc	acatgctgaa	agccaaaacc	tctagccgct	cctgcttttt
1321	gacttcggag	tgccactat	ctccgagcct	gtgagcacag	ggcctggcag	aggggtttga
1381	gtggcatgag	ctacctactg	gatgtgcctg	actgtttccc	cttctctctc	cccaggcttg
1441	ttagagtgtc	gtgcaagatg	tctggtaggg	gccccctttg	cttccctggg	ggccactgga
1501	ttgtgtttct	ttgggggtgg	actgttctgt	ggctgtggac	atgaagccct	cactggcaca
1561	gaaaagctaa	ttgagacctc	tttctccaaa	aactaccaag	actatgagta	tctcatcaat
1621	gtgtaagtac	ctgcctccc	acacagacct	atcttttttt	tcctctctct	catcctggag
1681	atagagaact	cttcagtacc	ttagtaacta	gcaggggact	ggggtggagc	cagaccggat
1741	tcccaggtct	tcctctctg	ca			

FIG. 17C

1 ctagaaaatc cctagccttg ttaaggtgct cgctctggtg tatacctcac ttatgtcggg
61 aaagaagcca ggtcttcaat taataagatt ccctggtctc gtttgtctac ctgttaatgc
121 aggatccatg ccttccagta tgtcatctat ggaactgcct ctttcttctt cctttatggg
181 gccctcctgc tggctgaggg cttctacacc accggcgcag tcaggcagat ctttggcgac
241 tacaagacca ccatctgcgg caagggcctg agcgcaacgg taacaggggg ccagaagggg
301 aggggttcca gaggccaaaca tcaagctcat tctttggagc ggggtgtgtca ttgtttggga
361 aaatggctag gacatcccga caaggtgac atcctcagga ttttgtggca ataacaaggg
421 gtgggggaaa attgggcgcg agtctgtggc ctggtcccca cccaaggctg ggtcctctct
481 aggggcctgg catttgagtg aggaagcgat ggctgcagcc gaacgagaag gtcaggaaga
541 acgtgggtgcc cagctggcct agcctcacct ttcaaagggt cctaagcaa atttcttctc
601 aaaacagaaa gcatgagttt tgtgggatgc tttgtacaat cagaccattt ctaagccatc
661 tgttggtatc cttttgttcc ctctctagta ggtaccacaa gagtggatct aactggacaa
721 gagtctaaaa tgctgctcat gtgattgaga cttgggcacc tgagctraga gggaggatgg
781 ataataaaaa ttaaataata actccaaggt aaatttacia tgttctgg

FIG. 17D

1 gatcctcttc attcttcccc taccatttcc cccaccctc cgttatactg gggccagtta
61 tctagtagat actgccaatt acccttggca gaggtgcctt gctcactaat tttatttggg
121 ggagmgcctt ggaacctggg tttaatgtct ggcacagcc acttccagga tctcccagtt
181 tgtgtttcta catctgcagg ctgatgctga tttctaacca accatgtca atcatttttag
241 tttgtgggca tcacctatgc cctgaccgtt gtgtggctcc tgggtgttgc ctgctctgct
301 gtgctgtgtt acattttactt caacacctgg accacctgcc agtctattgc cttccccagc
361 aagacctctg ccagtatagg cagtctctgt gctgatgcca gaatgtatgg tgagttaggg
421 tacgggtgct ttggctctcc taccactat ggaagcacta tatatttggg tattttctta
481 gtgtaaggag ggtggtgatt atgagaaaaa tataagatga tgaatgattg ggtcttagtt
541 tattaatcct tccctactga aaccagagag gtttcttccc ccggaaggga acttgggaagt
601 ggtgggagtt ttcttggcca ttcacattgg cctactctag ttgactgctg ttcacaaccc
661 caaagcagca catttcaata acaaacacaa ggtdsacca ctgttcaata ccaccttctc
721 ttttttghta acctgtagaa aagaggatcc taattgttgg tagmatccaa mtttacagcc
781 aggataatta gagatggaag aagggtctg ggggaaagtc tccatgtggc ccgtaactc
841 cataaagctt accctgcttg ctttttgtgt cttacttagg tgttctccca tggaatgctt
901 tccctggcaa ggtttgtggc tccaaccttc tgtccatctg caaaacagct gaggtgagtg
961 ggttatttgg gttattttac aaggagtag ctaataccat acaaattaca cccatggcct
1021 tcaattttta ggactgaaag tttccctttg ctggattttg aattagccga ttgccttcta
1081 caacatgttg gctaagtgtg cctgagccaa tgagcataga aggtaaaaca cctcttttct

FIG. 17E

1 aattagcaca cagaaaggat atccaacaca tacaaagctg tnntcatgga ctacactgga
61 gcatattact gctgttgcaa gaaacatttc ttcttctctt tttcattttc ctgcagttcc
121 aaatgacctt ccacctgttt attgctgcat ttgtgggggc tgcagctaca ctggtttccc
181 tgggtgagttg actttgaatg atcttggcaa gtaaatagga ctgagatagt tgtgggtaca
241 gctattctga aaggcaagaa ggtagactgc ttccatcctt gaaatgctgg aggga

FIG. 17F

0909250 "B" FEB 85

1	aattctatat	actatcacta	tggctccact	ttggatactc	tccagtggat	ttagttactc
61	atatggaaat	acctgggagg	acctcctaac	attattagaa	ttgttatgat	tataatacaa
121	ygctatgtcc	caggtcttgc	tgatagtgtc	acagtgcctt	gtgaatgtag	tgtgctcatt
181	gtgcagatta	aaaacctaag	gcactgaagg	gtgaagtgat	ttatctgaag	ttattttata
241	aagcagtgat	cagacaasct	gagctcacag	aactccctgg	cccctactgc	tgagggttcc
301	atacagagtc	aagtaatttc	tcaccttgta	aaacgaattg	attcattaac	caggggagag
361	ctctactgca	tgatgtggct	gtgtgtctac	agcaagcacc	ctatgactct	aagtcactcg
421	gacatattga	tgtggcaaag	cccaaataat	gttcacttcc	ctgaggaaaa	ctcagtgtca
481	gatcaaacag	aggtgtggaa	taaatcttta	tgatttgatt	ctctgggcct	gggccatgag
541	acccatgatg	cctcagagac	atcggacttc	cagtcaagtg	tatatggaga	aagccaagcc
601	tgggatgtac	tgctttttgc	agagcatggg	tttttccctt	athtagttat	gattttattt
661	ctacccttcc	tcattcccaa	agggatttga	ggagggagtg	ctttcttttc	tactctcatt
721	cacattctct	cttctgttcc	ctacagctca	ccttcattgat	tgctgccact	tacaactttg
781	cgtctcttaa	actcatgggc	cgaggcacca	agttctgatc	ccccgtagaa	atcccccttt
841	ctctaatagc	gaggctctaa	ccacacagcc	tacaatgctg	cgtctcccat	cttaactctt
901	tgcccttgcg	accaactggc	cctctcttta	cttgatgagt	gtaacaagaa	aggagagtct
961	tgcagtgatt	aaggtctctc	tttggactct	ccctctttat	gtacctcttt	tagtcatttt
1021	gcttcatagc	tggttcctgc	tagaaatggg	aatgcctaa	taatatgact	tccaactgac
1081	aagtcacaaa	ggaatggagg	ctctaattga	atthtcaagc	atctcctgag	gatcagaaag
1141	taatttcttc	tcaaagggtg	cttccactga	tggaaacaaa	gtggaaggaa	agatgtctag
1201	gtacagagaa	ggaatgtctt	tggctcctct	gccatctata	ggggccaaat	atatctctct
1261	tgggtgtacaa	aatggaattc	attctgcgtc	tctctattac	actgaagata	gaagaaaaaa
1321	gaatgtcaga	aaaacaataa	gagcgtttgc	ccaaatctgc	ctattgcagc	tgggagaagg
1381	gggtcaaagc	aaggatcttt	cacccacaga	aagagagcac	tgaccccgat	ggcgatggac
1441	tactgaagcc	ctaactcagc	caaccttact	tacagcataa	gggagcgtag	aatctgtgta
1501	gacgaagggg	gcactctggc	ttactcctcg	ttagggaaga	gaaacagggg	cttgtcagca
1561	tcttctcact	cccttctcct	tgataacagc	taccatgaca	accctgtggg	ttccaaggag
1621	ctgagaatag	aaggaaacta	gcttacatga	gaacagactg	gcctgaggag	cagcagttgc
1681	tgggtggctaa	tgggtgtaacc	tgagatggcc	ctctggtaga	cacaggatag	ataactcttt
1741	ggatagcatg	tctttttttc	tgtaatttag	ttgtgtactc	tggcctctgt	catactctca
1801	caatgggtgct	catttcatgg	ggatttatcc	attcagtcac	cgtagggtgat	ttgaagggtc
1861	tgatttgttt	tagaatgatg	cacatttcat	gtattccagt	ttgtttatta	cttatttggg
1921	gttgcatcag	aatgtcttgg	agaataattc	tttgattatg	actgtttttt	aaactaggaa
1981	aattggacat	taagcatcac	aatgatatt	aaaaattggc	tagttgaatc	tattgggatt
2041	ttctacaagt	attctgcctt	tcgagaaaca	gatttgggtg	atttgaatct	caatttgagt
2101	aatctgatcg	ttcttttctag	ctaattggaa	atgattttac	ttagcaatgt	tatcttgggtg
2161	tgttaagagt	taggttttaac	ataaagggtg	ttttctcctg	atatagatca	cataacagaa
2221	tgcaccagtc	atcagctatt	cagttggtaa	gcttccagtc	atcagctatt	cagttggtaa
2281	gcttcccagg	aaaaaggaca	ggcagaaaga	gtttgagacc	tgaatagctc	ccagatttca
2341	gtctttttaat	gtttttgtta	actttgggtt	aaaaaaaaaa	aaagtctgat	tggttttta
2401	tgaaggaaag	atttgtacta	cagtttcttt	gttgtaaaga	gttgtgttgt	tcttttcccc
2461	caaagtgggt	tcagcaatat	ttaaggagat	gtaagagctt	tacaaaaaga	cacttgatac
2521	ttgttttcaa	accagtatac	aagataagct	tccaggctgc	atagaaggag	gagagggaaa
2581	atgttttcta	agaaaccaat	caagataaag	gacagtgaag	taatccgtac	cttgtgtttt
2641	gttttgattt	aataacataa	caaataacca	acccttccct	gaaaacctca	catgcataca
2701	tacacatata	tacacacaca	aagagagtta	atcaactgaa	agtgttccct	catttctgat
2761	atagaattgc	aatttttaaca	cacataaagg	ataaactttt	agaaacttat	cttacaaggt
2821	gtattttata	aaattaaaga	aaataaaatt	aagaatgttc	tcaatcaaac	atcgtgtcct
2881	ttgagtgaat	tgttctattt	gacttcacaa	tagaaactta	ataatcgtac	cttctcaaga

FIG. 18A

0969349, 06E6860

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1  atggaaatgt tctgtatttg tgttgtctga tgagataacc actaactgta gtgctattga
61  gcatttgaaa catggctagt gtaatcaatg aaccaaattt ttaattttat ttaattgtaa
121 ttaatttttaa gtggccacat gcagggagtg actgctgcat tggacagcac ggctctaaat
181 tgagcctttt ttccttattt ggtgaggcat acttgccctta agattgggaa gtctattttt
241 ggaacctgct accaatgctg gtctcacact tgcaattctc agctgagcca agaggtgaga
301 gaaaggatcat tttccattcc aagatctcac tctccctgtg gacactgagg aaactggcaa
361 gtgatgtgaa ggctggagag cgtgtcctgt atgctggctc tgtcccttct gcctgtgttg
421 actgacatag ttagttgctg cccttgctgg tctcccttcc tccaaccttg cctctctgag
481 cacacctgac attcatctca tgaactccct aaaaacattc tttgggaaca agaaactaac
541 aaatcccaag tgacctatca catatacaaa catacagggc agagtttgga ttcgcggtag
601 aagaaagggg ggtagacat taagaagaat ggtctggtga tgacagttgt gagataatag
661 aaacaggaaa aagaaatcta agttttcttt ctttttttaa gaaccaataa taatttctct
721 cttttgacta gtcagtaggg ctgggggtgga ttggagggaag cttacatatt ccactgaaca
781 gcctcttctc aaggctcctg aagtgatect gcccactga ttagccctta gaagaccctt
841 caaagggttg atctccagga gggagtgggg gaggaagacc ctgtaccagg cagcctctgc
901 tccattgctc tgggggggtg gggaagacaa accctgggtc tccctcagt ctgtagccct
961 tttgtgtgag tgccctggcaa gggtagcgtg gggtgtttc tgcgggcaca gctgcagcaa
1021 ttaccggagt ggaggcaggg cccaggcagc actgccctcc aagatcttcc cttgggcttt
1081 tcagcagtaa ggggacatgc accccaaggg cctccacttg gctgacctt gctgcggggg
1141 ctctctgtcc ccaggaacag tagagatggc aagcttatcg agaccctctc tgcccagctg
1201 cctctgtctc ttcctcctcc tctcctcct ccaagtgtct tccagctatg caggtaagac
1261 atgttttttt tctgcccctg gggagaccct gaaaacagaa aggctagttt cctgggggtt
1321 agctccttca aacatcctca agttggtata ttatctttct aaaacataga cctactgaca
1381 tgccctccct cctcagaaac cttccgtggg tggttcttac agccttcaag atggagtcca
1441 gactcttttt tttttttggg acagagtctc cctctgttgc tcaggctgga gtgcagtggc
1501 atgatctcgg ctcactgcaa cctcagctc cctggttcaa gcgattctcc tgacttggcc
1561 tcccaagtag cggagactac aggcgcctgc caccacacc agctaaattt gttctttct
1621 ttcttttttt ttttttttgg gatttttaga cagacggggg ttcacatgtt ggcaggatg
1681 gtctcgatct cttgacctgc tgatccgccc gcctcagctt cccaaagtac tgggattatg
1741 ggcgtgagcc actgcactag gcctaatttt tttattttta gttagatgg ggtttacca
1801 tgttgccag gctgggtctg aacccctgac ctcaagtgg ctgcccctct cagcctccca
1861 aagttctgag attacaggca tgagccattg egtctgacct agactcctta atgtgactaa
1921 ctccaggctt tccctggact acttcttact tgtctttcca gctttgtctt ttcacctctc
1981 caattgagat aaaataataa caacctcttg gagttctcat caggattaca tgaaatgaga
2041 tatgtaacat gcttagcagt gcctgtccat agtaaattct aataaatgtt tgtggaatta
2101 taatatcttg tcatgtttga gactttgtct tgcataatca ggcaccagta ggtttttata
2161 aaggaacccg tctgtcacgt gcagaggaga aataaacaga aagtttccca tctcaggga
2221 gccacctgac tgacagaggc acagtgcac cactctccag gtctagggga gaaagcagcc
2281 ttattttctta gtagctcaga atctgacttg agaaacacat ccacatagaa aaaaacaagg
2341 aactttttct ggtcagggtc cgggaccac agtgagggtg aagatacagg ggaaggaaga
2401 gggaaataga gccatcccca ggtggaaga tctcagaaga gaatttgga aacaaggtat
2461 gaacaaggac tgaatagtga gaagtgtg agagacagct aaagtagatg gagtgtcaaa
2521 accaaaacct ctaagggtag aataggcagc aatttgcca agtcctaaca gggaggccca
2581 taggaggatt caacctcaag atgctgtgcc acattccaag agggaaacct aaggctgggc
2641 tgaagagtca gagatggcta cagctggcaa aaagatggc agatgctgag aggagatgat
2701 tgctaaaatg ttctgtccag gacattcaca gtatctctat aaccagagtc tttttgtctg
2761 ttgttgttct caagaaggaa acttgaggcc ggtgtggtg gtttatgccc ataatcccag
2821 cgcttttggg ccaaggcagg cggatcacct gaggtcagga gttcgagacc agcctggcca
2881 acagtgtgaa acctcatctt tactaaaaat acaaaaatta gctggatgag gcggtaggtg
2941 cctgtaatgc cagctactcg ggaggctgag gcaggagaat cacttgaacc tgggaggcgg
3001 aggttgcagg gaggcggagg ttgcagtgag ccaagattgc accactgcac tccagcctgg

```


[illegible]

9121 ctcacctcaa cctccgcctc ctgggttcaa gcgattctcc tgccctcagcc tcttgagtag .

FIG. 18D

9181 ctgggattac aggactgtgc caccacgtcc agctaatttt gtatTTTTtag tagaaacagg
 9241 gtttctccat gttggtcagg ctggtcttga actcccaacc tcaggcgatc cggccgcctc
 9301 ggccctcccaa agtgctggga ttacagggtg gagccaccgc acctggccaa tatttgtgat
 9361 ttttattgac gacaaagtca aaggttctct tcatattatt gtggtgtatc gcctacaagc
 9421 ataattaaaa taaacactaa atttcagttt aaagtttact gaaaataaat atgtattttt
 9481 tattccctat ttaagctttg aatccccgtga cttcctatac cattaccact gtcctagttc
 9541 aggttcatgt tgttttttac ttttaattgtt atcacagtct cttaacattt ctcctatgt
 9601 tctccagtcc tgtagggtgt aaatctgacg tgggtcacttc tcagcttggg atccttcagt
 9661 gcaccaccac agccttgaac tacatatttg aaatacatat ttattttcag taaactttaa
 9721 actgaaattt agtgtttatt ttaattatgc ttgtaggcga tacaccacaa taatatgaag
 9781 agaacctttg actttgtcgt caataaaaag tcccttgagg ggaacttcaga tgtaagtccc
 9841 ttagctgctc gttaaaaactc ccccgagctg acccaataca caatcttgac tttaaaccac
 9901 ttgtcattct aaatcactag catttcctgg aaaaaaaagc catttttctt tcagggtctaa
 9961 gctcagggac caattctgtg tcaccttctt tgaatcctga tgatattcac ttctttattt
 10021 gacctgattt attgggcccc agacaccatg ctgagtgttg gggattcagc tctggacaat
 10081 gtcaaagtgc agtccctgct ttcagatcct ttctactggg tgagccctgg agtgcctggt
 10141 ctccctgcgg tgcctgctgt gctcctcctg cagatcactc ttggcctcgt cttcctctgc
 10201 ctgcagtaca gactgagagg tacagggcag aggggtgggtg gatcaggatc ctttctttaa
 10261 atgagctggc ttcttggagc tacaccactt aacatgtatt tgtgagtgc ttctgggttc
 10321 agaagttctt ctcactattg agtgataaag aaaaaaaata actccatgat gaaagagttt
 10381 tacatcttac ggaatgcttt catatgaata atcggacctc gcatttccct atgagctaac
 10441 tatgccatat agtaacccca ttttacagag gatacaactg aggccaggag tagtctagtg
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 10561 cagctccatg caacttggga gagtgtgagc ttcgaaagtc gacaggtcta ggctattagg
 10621 agttttgaat aaagatactg aagtgaagc ctctaccaca cagtaggcgt tcgaaaattg
 10681 tttcctcttt ctcattcaa cactgaggac tcaggttcag ctgctgatga agctcctctt
 10741 ttttgcctag agctttcatt ctgagccttc tctcctacc aagtgtctcc ccaatgccag
 10801 agcaggaaga gtcttcactc ctcccaatgc cccacctccc atttgttact aagaggagag
 10861 gagaaagtag caaggagggt atggggaatg ttctggggga atgggtgttg gtgcgatcaa
 10921 caacaaagtc ctttctctca ccttgaatto atcccagatg cctgcttgtt tacttcttcc
 10981 acacaaaaaa aggccttcag cctcatggc tgagcagaaa gaatctgaat gttagagtca
 11041 ggcagcctgg gtttgaattc catctcaggt actgaactct atagcaaaat tcttagattc
 11101 tccaagcttc agttgccttg tctgtcaaat agagaaaaca tccttcgtcc taaattgtag
 11161 ggaggattaa agtcatgcaa agtgctact acaaatccag tcacaaagta gctagctact
 11221 cactaaatgt tcagctctc cctcctcatt cagatgggaa gtggccttag ataaacaaag
 11281 tggcaacgca gtgggctgga gcagctctgt gaactgagaa tccaagaaaa gggcggaaga
 11341 gcagctggga tgtattggat gcttgtgctg gcttggagca ttgctcacat tctttattcg
 11401 ctattgtatc tagactatag cttagagaaag agccgcaacc attggcttta aatccagtgc
 11461 tcttctact ctctgaggt tgtttccagg ctgcagagaa atagcctgca caaggggccc
 11521 aggcgctggg tgtgggaggg tccccaccga gagccagAAC atgcaggaac taaaatgttg
 11581 cctttttcta ttttaggaaa acttcgagca gagatagggt agttccagtc atcgtttctc
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 12001 ttctttaaat aagaagtcac ttgcatttag gatttgtaaa atcataataa aaatactcat
 12061 gtactgtttt tatgtgccag gcactattct aactacttta caaaaacgtt atcttattct
 12121 gtttaactcc ttatgcacat gatctctctt ttcaggaatg ccaaaacaga ggtaaataga
 12181 tcgtttacac gtaaacctga tgtctggttg gggaggtgaa acaaacagaa acaagacaca

[illegible]

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12361	aattgacccc	tcaaggacat	ggtttctagc	ctttttgttc	actgcagatt	gccaatgcc
12421	taaagataat	ggcaacagaa	gagcacccaa	atatttgtta	gataaatgtt	gcagacacta
12481	gaagggtgtc	ttaggggcaca	gatgggtacct	tctctgagca	aacttccttc	acagctcctc
12541	ctcccagggc	tgtagggtgac	tctactcttg	tcacctggca	cacagagttc	tatcgtacga
12601	tttaggaaat	tagaccagtg	tgtggaccac	acacacacac	atctttacac	acccaaagag
12661	gaggaatagt	atctttgttt	tggaggactt	gactatgaaa	ggtcttaact	cctttttgta
12721	ccatgaatct	ctctggcact	ccagtgaagt	ctaaaggacc	cctttgcaga	atgtttttta
12781	atatacacat	aaaatagaac	acataggatt	gcaaaaacaa	tcattgtact	aaaatacagt
12841	tatcaaccga	taatcacatt	tgtgatatag	taacataaat	gtttcttttt	tttttttttg
12901	gaggcagagt	ttggctcttg	tcaccaggc	tggagtgcga	tggcgcgatc	taggctcact
12961	gaaacctctg	ctccccgggt	tcaagcgatt	ctcagccttc	tgagtagctg	ggattacagg
13021	tggccgccac	cacacccgag	taatttttgt	atttttagta	gagactaggt	ttcaccaggt
13081	tggcaggct	ggcctcgaa	tctgcacctc	aggtgatcca	ctgccttgg	ctcccaaag
13141	tgctgggatt	acgggcatga	gccaccgtgc	cgggccataa	atatttcttt	agccaaagta
13201	atacatthaag	taatgtagca	gcaagtctaa	taacctgtaa	tttctttctt	tctttctttc
13261	tttctttttt	tttgagatga	agtttttttg	agatggagtg	caatggcaca	atctcggctc
13321	actgcaacct	ccacctcttg	ggttcaagcg	attctcctgc	ctcagcctcc	caagttgctg
13381	gaactacagg	cgcattgccac	catgcccagc	taatttttgt	attttttagta	gagacggggg
13441	ttcaccatgt	tggccaggct	ggctctgaac	cctgcacctc	aggtgatctg	cctgccttgg
13501	ccttccaaag	tgctgggatt	acaggcatga	gccaccaggc	ccagcccaat	aacctttaat
13561	ttcaacatac	taataaacat	aaacagttat	tcaagatttc	tgcaataact	ctaattggga
13621	tgaaaacatc	tgtgggtctc	atttgtaatt	aagtcacagg	tactgctcat	atttgtggtta
13681	gttgtaaaat	gttttggttt	gttttggttt	ttccaagact	tgggggaatg	ggtgttggtg
13741	ggatcaacaa	gagtccttgc	ctgtggccca	ggctggagtg	caggggcagg	atcttggtc
13801	actgcaacct	cgcctccca	ggttcaagcg	attctcctgc	ctcagcctcc	tgagtagctg
13861	gcattacagg	catgtgccac	cagcccagc	taatttttac	attttttagta	gagatggggg
13921	tccaccatgt	tggccttggt	ggctctgaac	tcttggtctc	atgatccacc	cgtctcggac
13981	ttccagagtg	tggggattac	aggcattgagc	caccacacct	ggcagttggt	acatttttaa
14041	tgaagaaaaa	tgttaaattc	agttattgaa	aataaggagg	cagtactttt	ctcatccaag
14101	ttcatggact	ttctgaattt	tgtcccaga	gtcctttggt	gttctaggac	cccaggttaa
14161	ggaacccaaa	aagacagggtg	ggtggggcat	gagggggaac	acatgttaat	ccctgtttgt
14221	tctggtgaac	aattcagatc	cccactttct	gaggggtgcc	tgttgaaga	taacctgtt
14281	tgtaatgtg	cgggttcttg	gaccttggt	tgccttgatc	atctgttaca	actggctaca
14341	tcgaagacta	gcagggtgcag	tggctgggca	gcaggcaaga	ccaccaata	gtgggggacc
14401	aagtcagctc	tgaatgggaa	gccaaaagag	aatagaacca	ggactcaaga	ttaggggagc
14461	tgggatttcc	ttattcctct	gtccccatgc	ccaacccag	gctctcttga	gaaactgtga
14521	agagaaccac	ttactggatc	tgtgggatcc	ccagtggaa	agggcagtg	gggtcactcc
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14641	tttctttttg	ttttcagggc	aattccttga	agagctacgt	aagttctctt	ctctctgtta
14701	taagcagaga	ataaaaagcc	aggaaaggga	gacagaagca	acaagaggaa	gaggcgggct
14761	attgagggat	cacattccca	gaggaaagga	ggagctggag	agcctgggtg	gaggggaagac
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14881	agaagctgga	ggcactccta	tctgccacct	gatccattcc	tccttcaactg	cccctaagca
14941	ggaatccaac	cctagctgg	ctcattgccc	attccacagc	aactgcccag	tgctcactcc
15001	ctcagatcaa	ccattgaggc	aggaatggag	acaagatgac	cccaagggct	tttcttctcc
15061	ctagttcaat	ggttttatga	tacaaactac	tgacatacgt	ttttcaagtt	atcttctctc
15121	tcttctagga	aatcccttct	gagttagtgc	acatcttggc	aggggtggag	gagagcctgy
15181	tgtcccaggg	attgtcctt	gggacatct	catccatcaa	gttgacact	cactggcctc
15241	tttgctatgg	ggacattcca	atctgcactt	tcagggaacac	tctgaattcc	aagtagaatt

[illegible]

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15421	cccctctctc	catcagagga	cacctgtact	ggagagcaac	acaggatggg	ctctgccatg
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15541	ttgttttctc	caagactcca	gccctgattg	cgaaaaactg	aaaggcatgt	gaaggggaagg
15601	aagaggaaga	gtgcaaaaca	ttgaagagag	agctgagtga	gctgaagagt	gaggatatga
15661	gtagccccaa	cccaaacctg	gagatgggga	gaaacctaca	gaatactagc	cagagctcct
15721	ccttgttctg	gcagcctact	agggacctgg	ggaagcaaaa	acgaaagctg	ggcaacatgc
15781	ctgcttttaga	atgttttctc	tctacttaca	catcttccac	aggtctcaga	atctttcctt
15841	cctctcatcc	ttttctccta	tctacatact	tatcagagta	tccactgttt	attcaacaac
15901	tactacttga	tggtcagaca	caaaacaaca	agctagggtc	taattaataa	agatacagat
15961	tttggccggg	tgcggtggct	cacgcctgta	atccagcac	tttgggaggc	cgatcggggc
16021	gaatcacgag	gtcaggagtt	caagaccagc	ctggccaaca	tggtgaaacc	ccactcttac
16081	taaaaataca	aacaattaac	tgagcatagt	ggtgggcacc	tataatacca	gctactccgg
16141	aggctgaggc	aggagaatcg	cttgaacca	ggaggcagag	gttgacgtga	gctgagatcg
16201	cgccactgca	ctctagccgg	agtgcacagag	taagactctg	tctcaaaaat	aaataaataa
16261	ataaataaat	aaataaataa	ataaataaaa	aataataata	caagttttca	taagcacact
16321	tctaaccctt	tgtcttttat	gtatttctct	ccttatccac	gcacctgtct	ccctctactc
16381	cagcctcatt	accccgaggg	tcagtctctc	ggaaaactaa	acacaaagaa	agagctcagt
16441	cagaaaggcc	atthattttat	gtttcaagat	gctcactgcc	tcctttgttt	tgtctccttt
16501	gcaggccttc	tctcttaggc	ctcttctcct	gggggtatgg	atcctggggg	gagattgatc
16561	acctccatgc	ttccattctc	cccagccat	agtggggaca	tcatgagaga	agccaagcca
16621	ctggcccagg	atcacccggc	atthattggg	gctgctctgg	cacaggtcct	tgcctttata
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16801	gaaagacttg	ctgcaatgga	agcagtagtt	gggcggctct	gtgaggtggc	ccttctgggtg
16861	tctggagaga	taggatttct	tgtataaagt	caaagaacaa	tgggggcaac	agaagacatt
16921	gagtcttgag	ggcttccactg	gatgagagtt	ggatctggca	tcctgacaga	gggttccagt
16981	gatgggtgcc	tgggtcctgg	tcacaggtgc	ttggttctta	agtacagatg	cctgggtctg
17041	ggccatagga	ccctcagttc	taaatatggg	ttcctgggac	ctggccactg	gtgcatgggt
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17161	ctgggtgect	ggaatcctca	aagtacactc	ctggtttcca	tccactggct	cctggttttg
17221	gtgtatcttc	tgggtggcgtt	tgagctcaga	ctggtcccgg	aagctcttcc	cacacacaga
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17341	acagtaggtc	ttgtcacaga	gcgtgcaaca	gaagggcctc	tccccaagat	gcatgcgtct
17401	gtgatagctg	agggacttgg	ggctccgaaa	caacttccca	cactgactgc	agctgttagt
17461	cagcttgggg	ttgtgaacaa	actgggtggct	atagaggtag	gagcgctgc	tgaaacattt
17521	ggcacagggtg	tagcaaaa				

[illegible]

THE UNIVERSITY OF CHICAGO

[illegible]

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

TABLE 1

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

FIG. 20

090340-04E6860

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1  ctgtatcagt gctcctcgtc gcctcactgt acttcacgga agagacttgg ttgactggcc
61  acttggagcg gaatcaggag acattcccaa ctgagagaga ctgagcccta gctcgccac
121 ttgctggaca agatgatatt ccttaccacc ctgcctctgt tttggataat gatttcagct
181 tctcgagggg ggcactgggg tgcttgatg ccctcgcca tctcagcctt cgagggcacg
241 tgtgtctcca tccctgccc ttctgacctc ccgcatgagc tcagaccggc tgtggtacat
301 ggcgtctggt atttcaacag tccctacccc aagaactacc cgccagtggc cttcaagtcc
361 cgcacacaag tgggtccacga gagcttccag ggccgtagcc gcctgttggg agacctgggc
421 ctacgaaact gcacctgct tctcagcacg ctgagccctg agctgggagg gaaatactat
481 ttccgaggtg acctggggcg ctacaaccag tacaccttct cggagcacag cgtcctggac
541 atcatcaaca cccccaacat cgtggtgccc ccagaagtgg tggcaggaac ggaagtagag
601 gtcagctgca tgggtgccga caactgccc gagctgcgcc ctgagctgag ctggctgggc
661 cacgaggggc taggggagcc cactgttctg ggtcggctgc gggaggatga aggcacctgg
721 gtgcaggtgt cactgctaca cttcgtgcct actagagagg ccaacggcca ccgtctgggc
781 tgtcaggctg ccttcccca caccacctg cagtctgagg gttacgccag tctggacgtc
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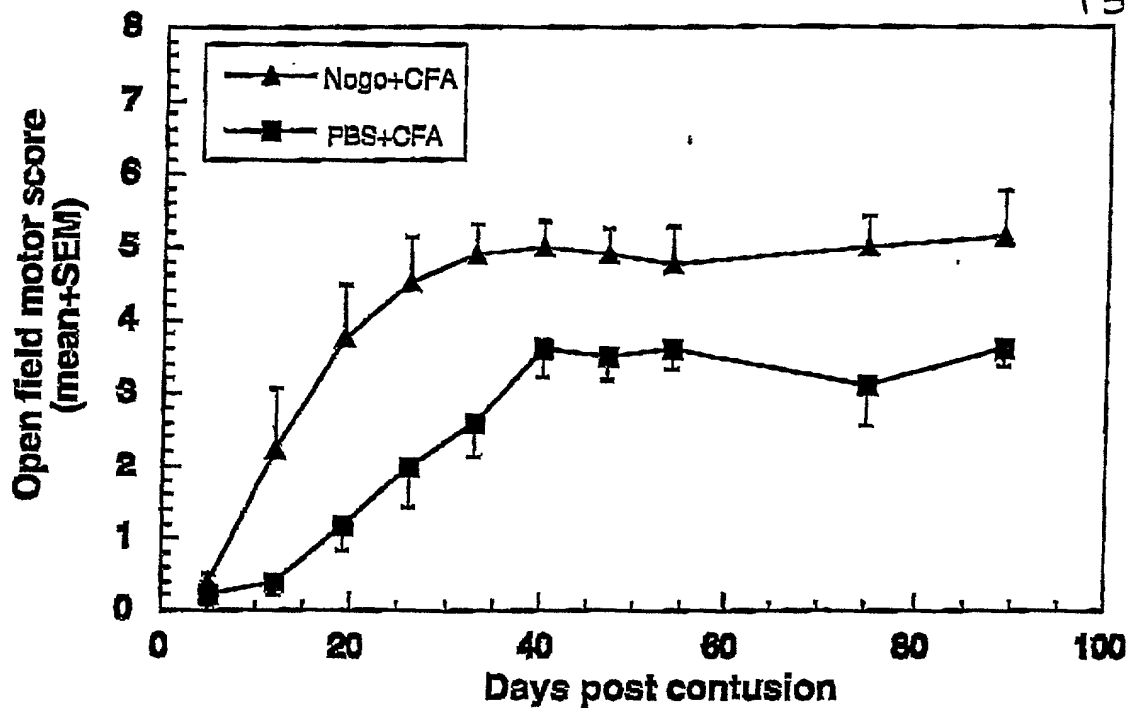


FIGURE 24A

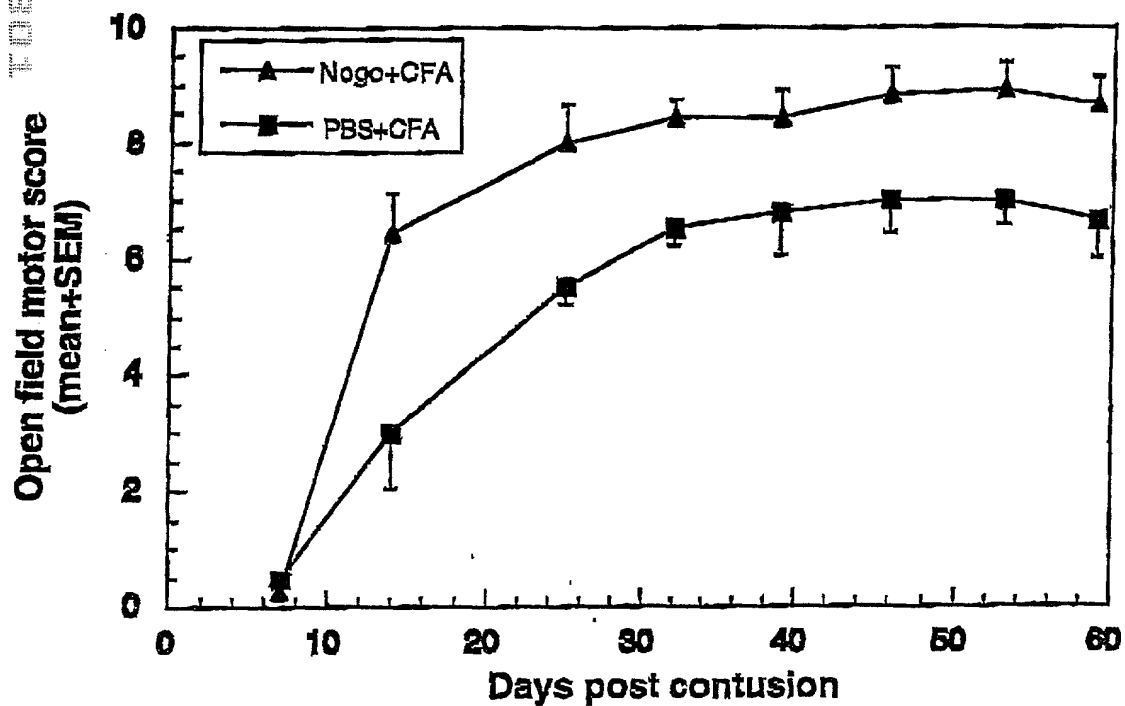
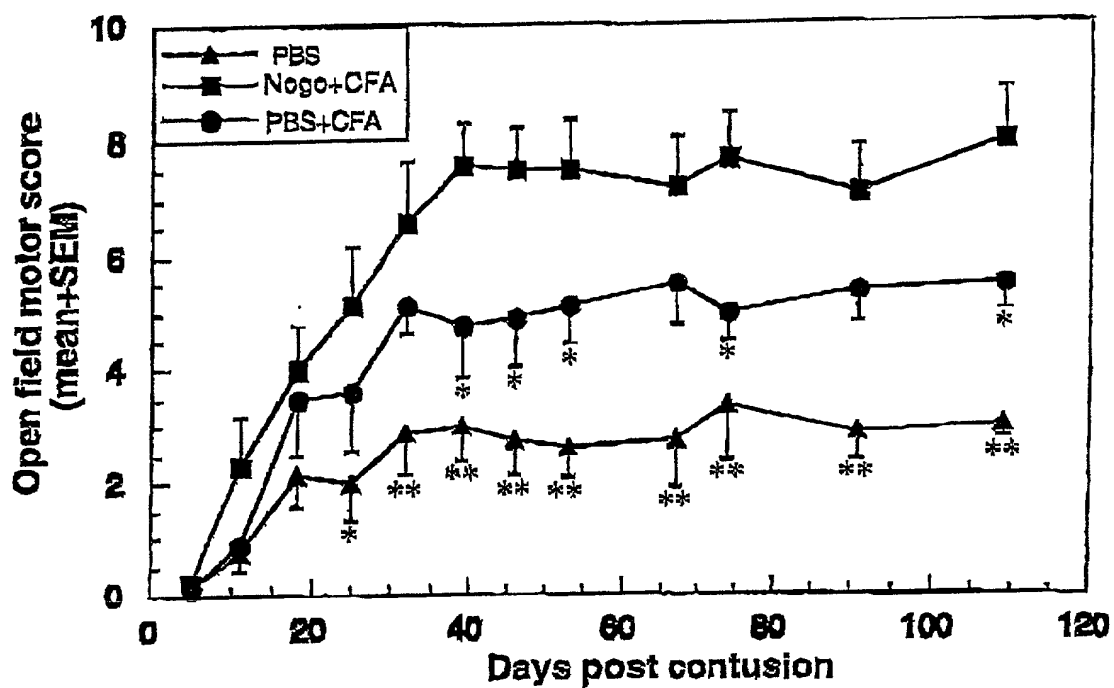


FIGURE 24B



SPD females (n=5), 50mm T9 contusion, CFA 1mg/ml after the contusion, boost with IFA 7 days later.

t-test: *P< 0.05, **P<0.01
 compared to Nogo+CFA

FIGURE 25